

Techno-footprint workshop

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Greening Government ICT

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Government & ICT

- Hundreds of thousands of civil servants use ICT
- Improves efficiency
- BUT burns energy and creates pollution
- Setting an example a largest ICT purchaser
- eg, switching Whitehall computers \equiv taking 40,000 cars off the road
- SOGE – government aiming for carbon neutrality by 2012

What government CIOs must achieve by 31/1/2009

PCs and laptops

- 1 Remove active screensavers
- 2 Switch monitors to standby after 5 minutes of inactivity (no active screensaver)
- 3 Shut down PCs after office hours
- 4 Enable active power management on desktops (standby / hibernate after a defined period of inactivity)
- 5 Ensure re-use of equipment that is no longer required but is still serviceable.
If re-use is not possible recycle or ensure green disposal
- 6 Specify low-power consumption CPUs and high-efficiency Power Supply Units (80% conversion or better)
- 7 Apply thin client technology

By 31/1/2009 – other ICT equipment

- 1 Apply timer switches to non-networked technology and printers
- 2 Set default green printing including duplex and grey scale
- 3 Optimise power-saving sleep mode on printers
- 4 Printer consolidation
- 5 Device consolidation

By 31/1/2009 Data centres - server optimisation

- a Implement storage virtualisation & capacity mgt
- b Convert existing physical servers to “virtual servers”
- c Turn off servers outside their service level agreement, subject to a phase loading and chiller unit risk assessment
- d When designing & provisioning new services, create “virtual servers” instead of procuring physical new servers.
- e Implement a multi-tiered storage solution (much of the data spinning on disks today is seldom accessed)

By 31/1/2009 Data centres - 2

- 1 Reduce cooling in the data centre to appropriate levels and increase the ambient room temperature
- 2 Identify servers & disks that are running but not providing any services and decommission
- 3 Specify low-power consumption, low voltage servers high-efficiency Power Supply (>80% conversion)
- 4 Ensure re-use of equipment that is no longer required but is still serviceable
- 5 Data centre audit

**Is this enough?
What are you going to do?
What comes next?**